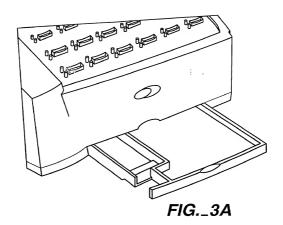
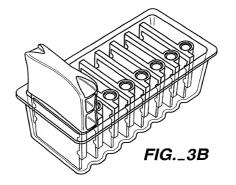
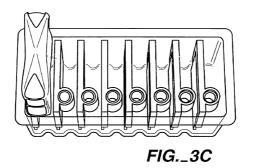
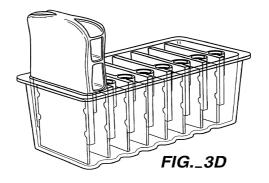


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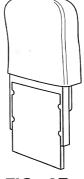
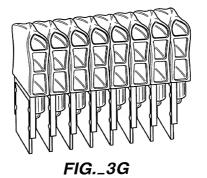
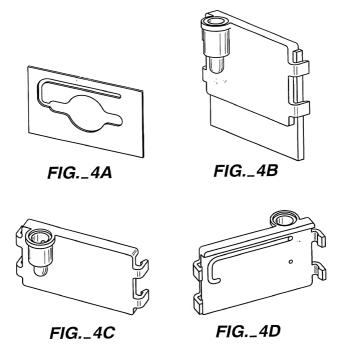
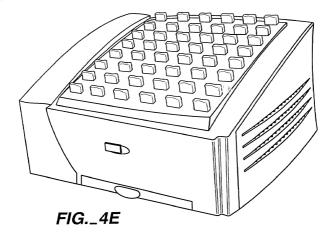


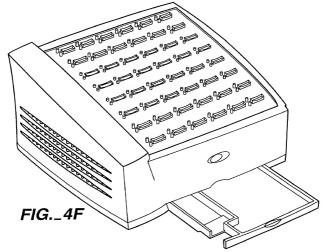
FIG.\_3E

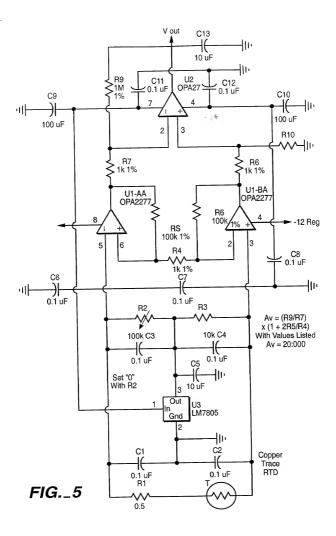
FIG.\_3F

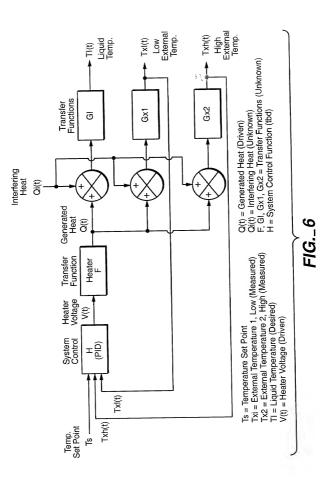


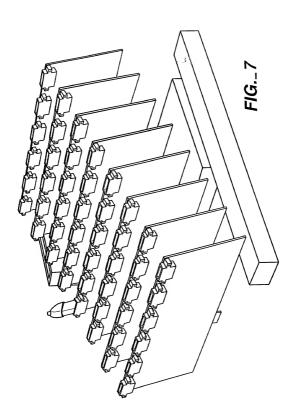


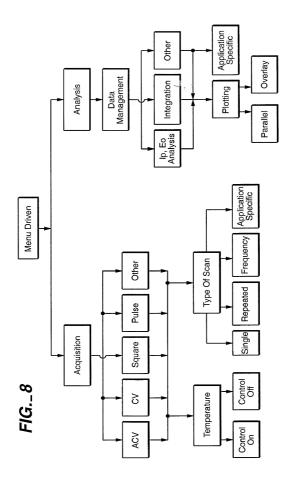


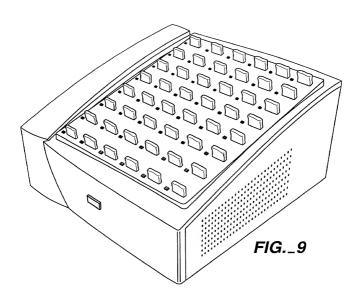


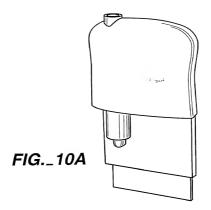














- Bar coded "reference" sheet, stored in tray under unit, with bar coded protocols, bar coded well and slot id's, bar coded commands (e.g. "cancel", "done", etc.)
- Standard bar code wand (preferably with built-in decoder), housed in the tray (hence hidden when not in use)
- Serial (RS-232/485) interface (preferred), or "keyboard wedge"
- Multi-code support (Code 39, Code 128, etc.)
- Bar code on chip carrier (1 code per "8 pack"), identifying test, batch, etc.
  - Peel off labels, with same code as on carrier, with each "8 pack"

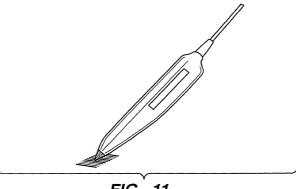


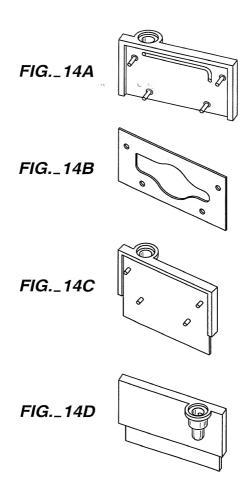
FIG.\_11

- Bar code usage scenario
  - User fills "8-pack" (all 8, or partially) from a 96 well plate, or from individual sample containers (PCR tubes, vaccutainers, etc.)
  - Pull out tray (with bar code reference sheet) and grab wand
  - Scan "start" code
  - Scan protocol code from sheet (will remain in effect until "done" is scanned)
  - Scan chip code from carrier (will remain in effect until "done" is scanned)
  - For each cartridge, user will
    - $\square$  insert the cartridge in an open slot. Unit senses new chip automatically  $\square$  scan the sample ID by either
      - scanning 96 well plate bar code from plate and well code from sheet
      - or scanning unique sample ID from container
      - or scanning "no ID" from reference sheet
  - Scan "done" code. The protocol can' now be started on these cartridges

## FIG.\_12

- Bar code concept benefits
  - No keyboard entry (all-routine setup can be entered via bar coding)
  - All routine entries accomplished while in front of unit (no going back & forth between PC & Hydra)
  - All bar code entries done from small, flat surface in front of unit
  - No need to label each chip or each slot (which would compromise appearance)
  - Uses small unobtrusive bar code wand, hidden when not in use
  - Is flexible with respect to sample container (tube, 96 well plate, etc.), chip usage (by row of 8, or by individual chip), and lab bar coding method

## FIG.\_13



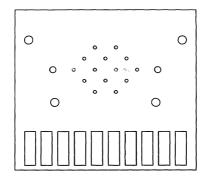


FIG.\_14E

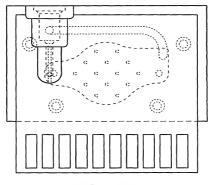
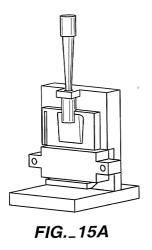


FIG.\_14F



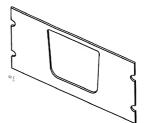


FIG.\_15B

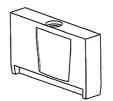


FIG.\_15C

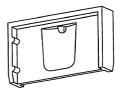


FIG.\_15D

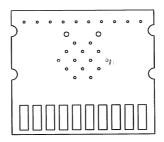


FIG.\_15E

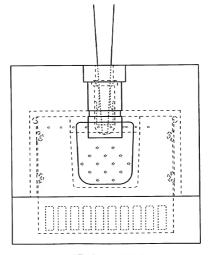
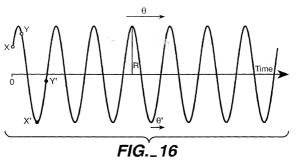
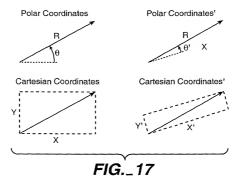
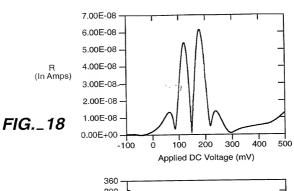


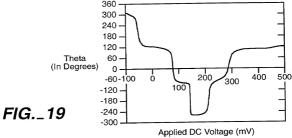
FIG.\_15F

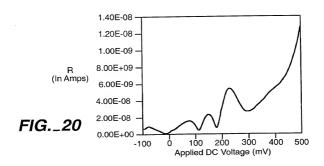
## A Sine Wave And Its Corresponding Vector Notation

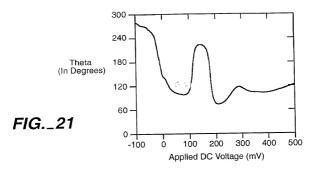


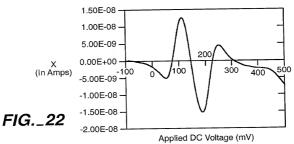


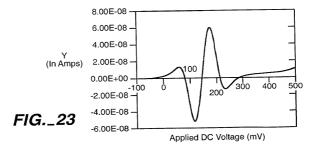


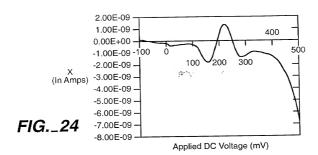


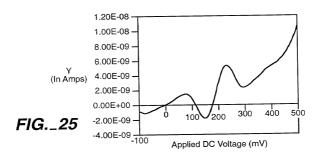












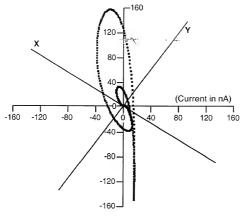


FIG.\_26

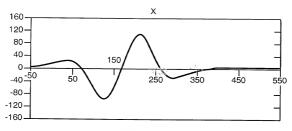


FIG.\_27

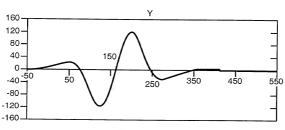


FIG.\_28

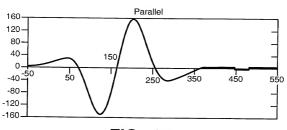


FIG.\_29

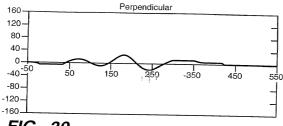
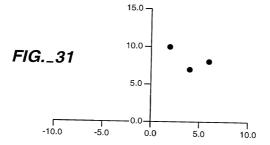
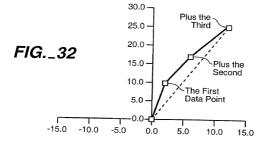
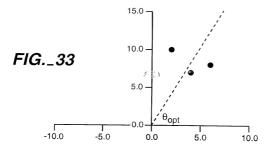
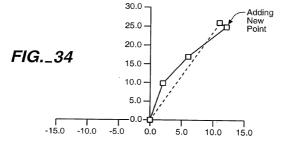


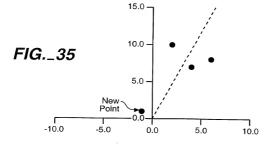
FIG.\_30

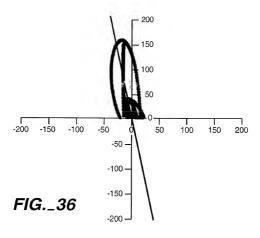


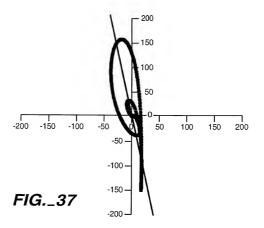


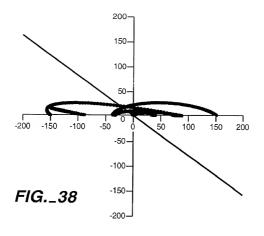


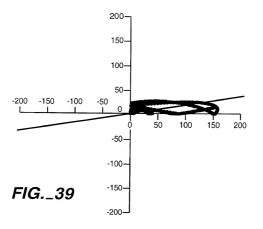


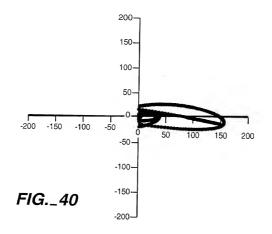


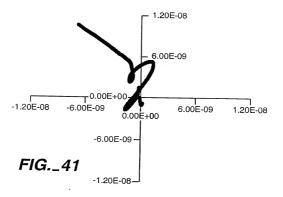




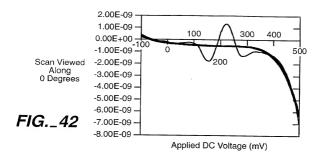


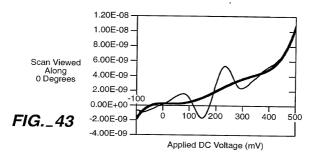


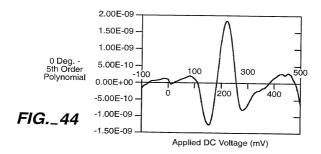




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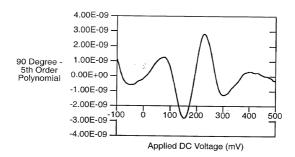


FIG.\_45

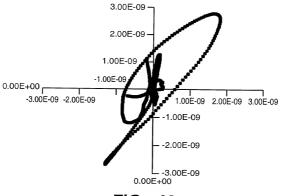
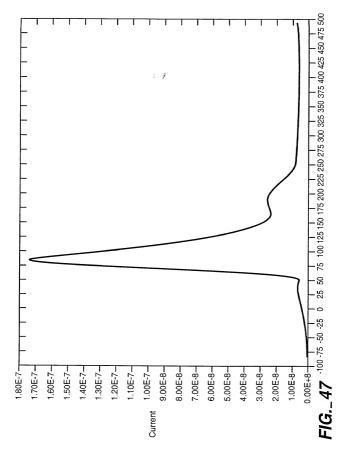


FIG.\_46

DECEMBER 75 FEBRUARY



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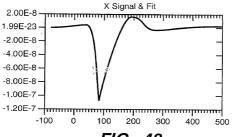


FIG.\_48

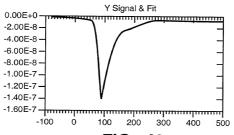


FIG.\_49

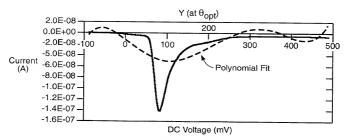
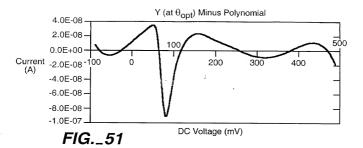
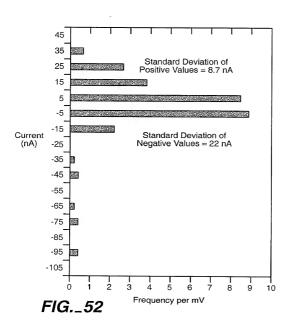
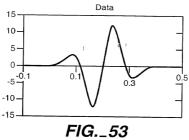


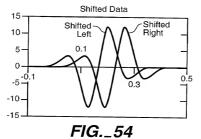
FIG.\_50

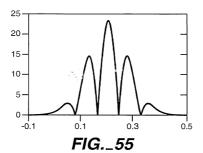


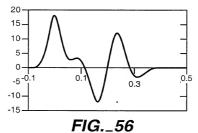


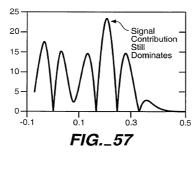


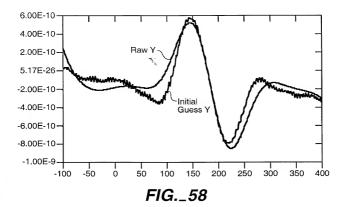


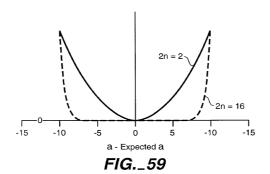












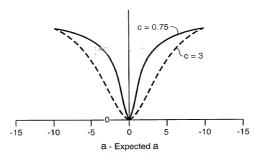


FIG.\_60

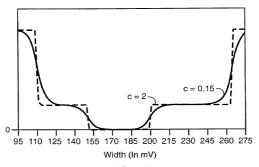
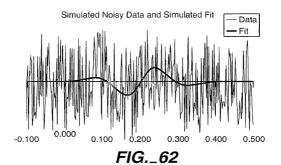
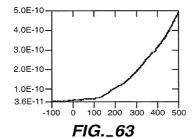
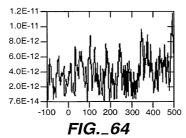
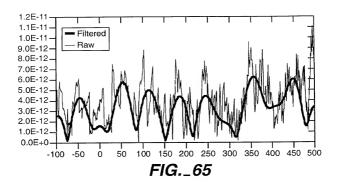


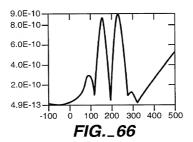
FIG.\_61

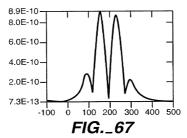












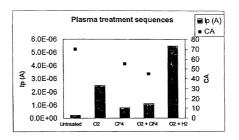


Fig. 68

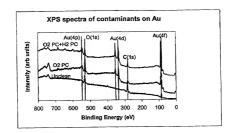


Fig 69